	Application No.	Applicant(s)
Notice of Allowability	09/903,071	GROVE ET AL.
	Examiner	Art Unit	
	Haresh Patel	2154	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *6/19/2006*.

2. ☒ The allowed claim(s) is/are *1,9 and 21-38*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the

            International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

        Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *9/7/06* .

7. ☒ Examiner's Amendment/Comment

8. ☐ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

JOHN FOLLANSBEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

U.S. Patent and Trademark Office

PTOL-37 (Rev. 08-06)   Notice of Allowability   Part of Paper No./Mail Date 20060907

EXAMINER'S AMENDMENT

1.   An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

2.   Authorization for this examiner's amendment was given in a telephone interview with

Miss Wendi R. Schepler on September 7, 2006.

Amendment to the Claims

3.   Please amend the claims 1, 9 and 34 as attached.

Allowable Subject Matter

4.   Claims 1, 9 and 21-28 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Haresh Patel whose telephone number is (571) 272-3973. The

examiner can normally be reached on Monday, Tuesday, Thursday and Friday from 10:00 am to

8:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John Follansbee can be reached on (571) 272-3964. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Haresh Patel

September 7, 2006

JOHN FOLLANSBEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Claim 1: (currently amended) In a communication network comprising:

a plurality of local name servers, each of the local name servers being capable of answering name-to-address resolution queries by using temporarily stored information or by further querying other name servers,

at least one application server having at least one application server address and being capable of receiving requests for at least one service and performing the at least one service, wherein the at least one service has a service name,

a plurality of clients, each of the clients being associated with at least one of the local name servers, and being capable of querying the at least one associated local name server for an address of the at least one application server, to receive from the at least one associated local name server an answer specifying an address of the at least one application server, and to send a request for the at least one service to the at least one application server having the address specified in the answer,

and at least one authoritative name server, the at least one authoritative name server being capable of providing answers to name-to-address resolution queries from the local name servers, the content of every answer having a validity period,

a method for discovering associations between the clients and the local name servers, comprising the steps of:

producing a query record concerning a query from one of the local name servers received by the at least one authoritative name server and an answer to the query, the query record including:

a first application server identifier of the at least one application server that is the answer to the query,

a response timestamp expressing when the answer was issued,

a validity period defined for the first application server identifier, and

a local name server address of the local name server from which the query was

received;:

producing a request record concerning a service request issued by one of the clients for a

service and received by the at least one application server, the request record

including:

a second application server identifier of the application server that received the

service request,

a request timestamp expressing when the service request was received, and

a client address of the client that issued the service request; and

comparing query records and request records to find matching pairs of query records and

request records, and associating the local name server address in the matching

query record to the client address in the matching request record, a matching pair

being defined as a first-identified pair of one of the query records and one of the

request records for which the first application server identifier matches the second

application server identifier and the response timestamp matches the request

timestamp.

Claim 9: (currently amended) A system for discovering associations between clients and local

name servers, comprising

at least one name server monitor, the at least one name server monitor being associated

with an authoritative name server and configured to modify an answer to a

domain name resolution query from at least one local name server, the modified

answer including a monitoring address for an application server, and further

configured to create query records,

wherein each of the query records includes a local name server identifier, an application

server identifier, and a response timestamp;

at least one application server monitor, the at least one application server monitor being

associated with an application server and configured to receive a request from a

client and pass the request to the associated application server, and further

configured to create request records,

wherein each of the request records includes a client identifier, an application server

identifier of the associated application server, and a request timestamp; and

at least one discovery and monitoring manager configured to compare the query records

and the request records to discover the associations between the clients and the local name

servers.

Claim 34:   (currently amended) A method for associating clients and local name servers,

comprising:

receiving a domain name resolution query from a local name server for an address of an

application server;

responding to the domain name resolution query with an answer that includes a

monitoring address for the application server;

creating a query record that includes an application server identifier that uniquely

identifies the application server, the monitoring address for the application server,

a local name server identifier for the local name server and a response timestamp;

receiving a request for content from a client, the request being addressed to the

monitoring address for the application server;

creating a request record that includes the application server identifier, the monitoring

address for the application server, a client identifier that uniquely identifies the

client, and a request timestamp; and

associating the client with the local name server if when the query record and the request

record match, wherein the query record and the request record match if when the

application server identifier in the query record matches the application server

identifier in the request record, the monitoring address in the query record

matches the monitoring address in the request record, and the response timestamp

matches the request timestamp.